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1	1.	An apparatus for providing power to at least one line driver device in a
2		communication system; each respective line driver device of said at least one line

- 3 driver device having a respective inherent internal voltage drop and having a
- 4 respective output terminal coupled with a respective communication loop; each said
- 5 respective communication loop requiring a respective minimum operational voltage at
- 6 said respective output terminal; the apparatus comprising:
- 7 (a) at least one control device; said at least one control device being coupled with said respective output terminal of each said respective line driver device; and
  - (b) at least one power supply device; said at least one power supply device being coupled with said at least one control device and with each said respective line driver device; said at least one power supply device cooperating with said at least one control device to deliver a respective supplied voltage to each said respective line driver device; said respective supplied voltage being substantially equal with said respective minimum operational voltage less said respective inherent internal voltage drop for each said respective line driver device.
- An apparatus for providing power to at least one line driver device in a
  communication system as recited in Claim 1 wherein said at least one control device
  is a respective control device coupled with each said respective output terminal.
- 1 3. An apparatus for providing power to at least one line driver device in a
- 2 communication system as recited in Claim 1 wherein said at least one control device
- 3 is a single control device coupled with each said respective output terminal.
- 1 4. An apparatus for providing power to at least one line driver device in a
- 2 communication system as recited in Claim 1 wherein said at least one power supply
- device is a respective power supply device coupled with each said respective line
- 4 driver device.

1	5.	An apparatus	for providing	power to at	least one	line driver	device in a
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- 2 communication system as recited in Claim 1 wherein said at least one power supply
- device is a single power supply device coupled with each said respective line driver
- 4 device.
- 1 6. An apparatus for providing power to at least one line driver device in a
- 2 communication system as recited in Claim 2 wherein said at least one power supply
- device is a respective power supply device coupled with each said respective line
- 4 driver device.
- 1 7. An apparatus for providing power to at least one line driver device in a
- 2 communication system as recited in Claim 3 wherein said at least one power supply
- device is a respective power supply device coupled with each said respective line
- 4 driver device.
- 1 8. An apparatus for providing power to at least one line driver device in a
- 2 communication system as recited in Claim 2 wherein said at least one power supply
- device is a single power supply device coupled with each said respective line driver
- 4 device.
- 1 9. An apparatus for providing power to at least one line driver device in a
- 2 communication system as recited in Claim 3 wherein said at least one power supply
- device is a single power supply device coupled with each said respective line driver
- 4 device.
- 1 10. An apparatus for providing power to selected line driver devices of a plurality of line
- 2 driver devices in a communication system; each selected line driver device having a
- 3 respective inherent internal voltage drop; each selected line driver device being
- 4 coupled with a respective communication loop and providing a respective minimum
- 5 operational voltage to said respective communication loop; the apparatus comprising:

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6	(a) a control means for controlling supply voltage to said selected line driver devices
7	said control means being coupled with said selected line driver devices; and

- (b) a power supply means; said power supply means being coupled with said control means and with said selected line driver devices; said power supply means cooperating with said control means to deliver a respective supply voltage to respective said selected line driver devices; said respective supply voltage being at least equal with said respective minimum operational voltage less said respective inherent internal voltage drop for each said respective selected line driver device.
- 11. An apparatus for providing power to selected line driver devices of a plurality of line
  driver devices in a communication system as recited in Claim 10 wherein said control
  means is a respective control device coupled with each said respective selected line
  driver device.
- 12. An apparatus for providing power to selected line driver devices of a plurality of line
  driver devices in a communication system as recited in Claim 10 wherein said control
  means is a single control device coupled with each said respective selected line driver
  device.
- 13. An apparatus for providing power to selected line driver devices of a plurality of line
  driver devices in a communication system as recited in Claim 10 wherein said power
  supply means is a respective power supply device coupled with each said respective
  selected line driver device.
- 14. An apparatus for providing power to selected line driver devices of a plurality of line
  driver devices in a communication system as recited in Claim 10 wherein said power
  supply means is a single power supply device coupled with each said respective
  selected line driver device.

- 1 15. An apparatus for providing power to selected line driver devices of a plurality of line
- 2 driver devices in a communication system as recited in Claim 11 wherein said power
- 3 supply means is a respective power supply device coupled with each said respective
- 4 selected line driver device.
- 1 16. An apparatus for providing power to selected line driver devices of a plurality of line
- driver devices in a communication system as recited in Claim 12 wherein said power
- 3 supply means is a respective power supply device coupled with each said respective
- 4 selected line driver device.
- 1 17. An apparatus for providing power to selected line driver devices of a plurality of line
- driver devices in a communication system as recited in Claim 11 wherein said power
- 3 supply means is a single power supply device coupled with each said respective
- 4 selected line driver device.
- 1 18. An apparatus for providing power to selected line driver devices of a plurality of line
- 2 driver devices in a communication system as recited in Claim 12 wherein said power
- 3 supply means is a single power supply device coupled with each said respective
- 4 selected line driver device.
- 1 19. An apparatus for providing power to selected line driver devices of a plurality of line
- driver devices in a communication system as recited in Claim 10 wherein said control
- means is coupled with said selected line driver devices via individual control lines
- 4 intermediate each respective said selected line driver device and said control means.
- 1 20. An apparatus for providing power to selected line driver devices of a plurality of line
- driver devices in a communication system as recited in Claim 10 wherein said control
- means is coupled with said selected line driver devices via a communication bus
- 4 intermediate said selected line driver devices and said control means; each respective
- 5 said selected line driver device being assigned a respective address; said control

- 6 means identifying information received via said communication bus according to an
- 7 accompanying respective said selected line driver address.
- 1 21. An apparatus for providing power to selected line driver devices of a plurality of line
- driver devices in a communication system as recited in Claim 10 wherein said control
- 3 means is coupled with said selected line driver devices via individual communication
- 4 lines intermediate each respective said selected line driver device and said control
- 5 means.
- 1 22. An apparatus for providing power to selected line driver devices of a plurality of line
- driver devices in a communication system as recited in Claim 10 wherein said control
- 3 means is coupled with said selected line driver devices via a multiplexer for pollingly
- 4 determining extant operational voltage for said respective communication loops.
- 1 23. An apparatus for providing power to selected line driver devices of a plurality of line
- driver devices in a communication system as recited in Claim 10 wherein said power
- 3 supply means is coupled with said selected line driver devices via a control bus
- 4 intermediate said selected line driver devices and said power supply means; each
- 5 respective said selected line driver device being assigned a respective address; said
- 6 power supply means identifying a destination for information dispatched via said
- 7 control bus according to an accompanying respective said selected line driver address.
- 1 24. An apparatus for providing power to selected line driver devices of a plurality of line
- driver devices in a communication system as recited in Claim 10 wherein said power
- 3 supply means is coupled with said selected line driver devices via individual
- 4 communication lines intermediate each respective said selected line driver device and
- 5 said power supply means.
- 1 25. An apparatus for providing power to selected line driver devices of a plurality of line
- 2 driver devices in a communication system as recited in Claim 10 wherein said power

- supply means is coupled with said selected line driver devices via a multiplexer for pollingly identifying a destination for information dispatched from said power supply means.
- 1 26. An apparatus for providing power to selected line driver devices of a plurality of line driver devices in a communication system as recited in Claim 10 wherein said power 2 3 supply means further includes a plurality of power supply lines; each said power 4 supply line of said plurality of power supply lines carrying a predetermined power 5 supply potential; said power supply means and said control means cooperating to selectively couple each respective selected line driver device to an appropriate power 6 7 supply line of said plurality of power supply lines; said appropriate power supply line 8 carrying said power supply potential sufficient to at least match said respective supply 9 voltage.